

Post-ShakeAlert® Message Summary

Earthquake:

Advanced National Seismic System (ANSS):
M 4.3 - 19.3 km (12.0 mi) W of Bishop
ANSS location: 37.410, -118.605
ANSS depth: 9.5 km (5.9 mi)
ANSS origin (Local): 2022-03-30 19:05:26.8
ANSS origin (UTC): 2022-03-31 02:05:26.8
ShakeAlert first Message (UTC): 2022-03-31 02:05:37.5
ShakeAlert Event ID: ew1648692330

ShakeAlert Messages Issued (after origin time):

Initial: 10.7 sec
Peak magnitude: 28.4 sec
Final: 28.4 sec

ShakeAlert System Magnitude Estimates:

Initial: M 4.0
Peak: M 4.1
Final: M 4.1

ShakeAlert System Location Accuracy:

Initial: 1.4 km (0.9 mi) NE
At peak mag.: 1.4 km (0.9 mi) SW
Final: 1.4 km (0.9 mi) SW

Wireless Emergency Alert:

WEA alerts are distributed to the MMI 4+ area if ShakeAlert Peak M \geq 5.0

Number of Stations Reporting:

0 within 10 km of epicenter
17 within 100 km of epicenter
29 used in final ShakeAlert Message

Nearby Cities:

City	Distance	Time*	MMI**
Bishop	19 km (12 mi)	~0 sec	2
Mammoth Lakes	41 km (26 mi)	~1 sec	<2
Visalia	135 km (84 mi)	~27 sec	<2
Sacramento	285 km (177 mi)	~70 sec	<2

Radius shaken before message release: 38 km (24 mi)

Footnotes:

* Time -- Time between message release and arrival of the S-wave at the location.

** MMI -- Modified Mercalli Intensity: a scale to measure ground shaking severity.

*** For earthquakes deeper than ~15 km, the ShakeAlert Message may be sent before peak shaking reaches the surface.

Disclaimer:

This information is provisional and subject to revision. It is being provided to meet the need for timely best science. The information has not received final approval by the U.S. Geological Survey (USGS) and is provided on the condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from the authorized or unauthorized use of the information.

To learn more about ShakeAlert®, visit www.shakealert.org/FAQ

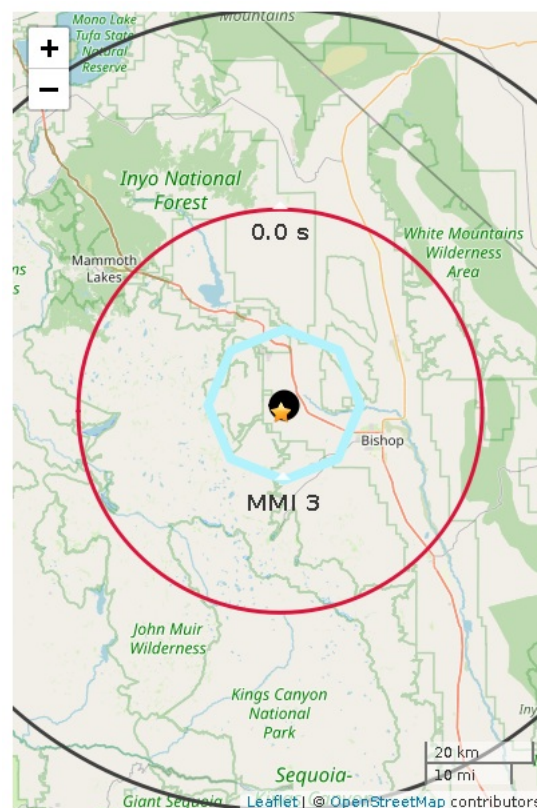


Figure 1. ShakeAlert initial earthquake location (black dot). Star is ANSS earthquake epicenter. Polygon approximates the outer range for felt ground motion. If shown, red circle is front of peak shaking when the message was released***. Shaking takes 10 s to expand from circle to circle.



Figure 2. Polygons show shaking intensity contours for the peak magnitude estimate. Shaking of MMI 3 or less is often not felt. Star shows the ANSS earthquake epicenter.

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